



Morbidity and Mortality

U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE / PUBLIC HEALTH SERVICE HEALTH SERVICES AND MENTAL HEALTH ADMINISTRATION
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INTERNATIONAL NOTES

SMALLPOX - West and Central Africa

During the first 9 weeks of 1969, only 129 cases of smallpox were reported from West and Central Africa and only nine of the 19 countries in this area reported cases.¹ During the comparable period in 1968, a total of 1,063 were reported (Figure 1).

Historically, January and February have marked the annual upsurge of reported smallpox as a result of the gathering momentum of dry season epidemics, but in 1969 during these months, transmission remained at unprecedented low levels. The failure of smallpox to re-surge this year reflects efforts of the 19-country coordinated regional smallpox eradication and measles control program being waged by these 19 countries. From January 1967 through February 1969, 70 million of the

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119 million residents of the region were vaccinated against smallpox.

Editorial Comment:

The absence of an increase during the smallpox season in West and Central Africa may be attributed in

(Continued on page 106)

TABLE I. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
(Cumulative totals include revised and delayed reports through previous weeks)

| DISEASE ¹ | 13th WEEK ENDED | | MEDIAN 1964 - 1968 | CUMULATIVE, FIRST 13 WEEKS | | |
|---|-------------------|-------------------|-----------------------|----------------------------|---------|-----------------------|
| | March 29, 1969 | March 30, 1968 | | 1969 | 1968 | MEDIAN 1964 - 1968 |
| Aseptic meningitis | 26 | 28 | 28 | 377 | 355 | 359 |
| Brucellosis | 4 | 4 | 5 | 23 | 23 | 49 |
| Diphtheria | 6 | 1 | 2 | 38 | 37 | 37 |
| Encephalitis, primary: | | | | | | |
| Arthropod-borne & unspecified | 21 | 16 | 26 | 258 | 188 | 307 |
| Encephalitis, post-infectious | 6 | 10 | 17 | 64 | 115 | 172 |
| Hepatitis, serum | 116 | 89 | 828 | 1,303 | 915 | 10,883 |
| Hepatitis, infectious | 870 | 900 | 7 | 11,884 | 10,792 | 75 |
| Malaria | 56 | 56 | 7 | 603 | 587 | 75 |
| Measles (rubeola) | 1,029 | 880 | 9,149 | 6,839 | 8,016 | 94,233 |
| Meningococcal infections, total | 85 | 89 | 89 | 1,073 | 1,009 | 1,009 |
| Civilian | 69 | 78 | --- | 998 | 917 | --- |
| Military | 16 | 11 | --- | 75 | 92 | --- |
| Mumps | 2,766 | 5,163 | --- | 31,141 | 66,095 | --- |
| Poliomyelitis, total | — | — | 1 | 1 | 14 | 6 |
| Paralytic | — | — | 1 | 1 | 14 | 5 |
| Rubella (German measles) | 2,075 | 1,961 | --- | 13,996 | 14,263 | --- |
| Streptococcal sore throat & scarlet fever | 11,599 | 11,258 | 11,683 | 152,354 | 150,003 | 150,003 |
| Tetanus | 1 | 1 | 1 | 23 | 26 | 38 |
| Tularemia | 1 | 1 | 2 | 24 | 18 | 50 |
| Typhoid fever | — | 7 | 7 | 47 | 56 | 70 |
| Typhus, tick-borne (Rky. Mt. spotted fever) | — | 1 | — | 1 | 4 | 6 |
| Rabies in animals | 96 | 94 | 132 | 924 | 966 | 1,090 |

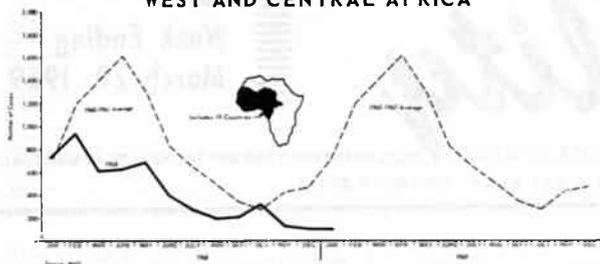
TABLE II. NOTIFIABLE DISEASES OF LOW FREQUENCY

| | Cum. | | Cum. |
|--------------------------|------|--|------|
| Anthrax: | — | Rabies in man: | — |
| Botulism: | 2 | Rubella congenital syndrome: | 2 |
| Leptospirosis: | 11 | Trichinosis: * | 20 |
| Plague: | — | Typhus, murine: | 3 |
| Psittacosis: | 6 | | |

*Delayed reports: Trichinosis: Me. 1, N.Y. Ups. delete 1 (1968)

SMALLPOX - (Continued from front page)

FIGURE 1
REPORTED SMALLPOX CASES BY MONTH
1960-67 AVERAGE, 1968 AND 1969
WEST AND CENTRAL AFRICA



large part to a continuing program of intensified surveillance, case investigation, and outbreak control ("eradi-

cation escalation") initiated in September 1968 by the eight countries then experiencing endemic smallpox: Dahomey, Guinea, Mali, Nigeria, Niger, Sierra Leone, Togo, and Upper Volta. The sudden increase in reported smallpox cases in October 1968 denotes a positive effect on reporting efficiency (Figure 1). Through deliberate efforts to search out smallpox cases and to terminate transmission by rapid focal vaccination among contacts, endemic smallpox transmission has ceased in all but three of these countries: Nigeria, Sierra Leone, and Togo.

Reference:

¹World Health Organization *Weekly Epidemiological Record* 44(12):205-211.

SMALLPOX IMPORTATION - Cameroon and Ghana

Since Jan. 1, 1969, smallpox cases have been reported from two West and Central African countries participating in the Smallpox Eradication/Measles Control Program, which have not experienced continuing endemic transmission of the disease within their own borders for some time.¹ Cameroon, in January, reported seven cases from two departments in the north, Margui-Wandata (2 cases) and Diamare (5 cases), adjacent to the Nigerian border. Ghana reported three cases of smallpox. Neither country, though subject to frequent importations from endemic areas in the past, had reported even sporadic cases of smallpox for several months prior to this.

In Cameroon, the source of infection in both outbreaks was traced to Banki, Sardaunna Province, North-Eastern State, Nigeria. Containment measures were immediately initiated and intensive surveillance established in the infected areas. These cases were the first reported in Cameroon since June 1968.

In Ghana, the first case involved a 64-year-old linguist and farmer from the village of Akanteng, Eastern Region

(50 miles northwest of Accra), who developed a rash on December 28, about 10 days after returning home from a meeting in Kibi, 20 miles away and 85 miles from the border of Togo. He was admitted to a hospital on January 1 and immediately isolated. His 11-year-old son, vaccinated unsuccessfully at that time, developed fever and a rash on January 14 and was subsequently isolated. It was not known whether the father or the son, who was supposedly also vaccinated in infancy and again at age 5 years, had vaccination scars. The source of the father's infections was not known although a possibility was neighboring Togo, a country reporting a high incidence of smallpox in 1968. A third case of smallpox was reported on January 31, but no details were provided. These smallpox cases were the first reported from Ghana since July 1968.

Reference:

¹World Health Organization *Weekly Epidemiological Record*, 44 (8):152.

EPIDEMIOLOGIC NOTES AND REPORTS
BOTULISM - Louisville, Kentucky

On March 7, 1969, a 53-year-old man developed symptoms of gastroenteritis. Although symptomatic treatment for "stomach flu" was prescribed, he developed diplopia, ataxia, dysphagia, and difficulty speaking on March 9. He was hospitalized on March 13 with ocular palsy and pharyngeal, lingual, and skeletal muscle weakness but without fever or sensory deficits. The admitting diagnosis was botulism and bivalent (A,B) *Clostridium botulinum* antiserum was administered. After receiving a total of 30,000 units, the patient showed marked clinical improvement and has since been discharged from the hospital.

The only suspicious food in the patient's history was home-canned tomato juice, consumed on March 6. After one swallow, the patient discarded the tomato juice because of its bad taste. The tomato juice was prepared from homegrown ripe tomatoes. After washing, they were cooked, strained, reheated without boiling, and poured while hot into clean, scalded glass jars. A teaspoon of salt was added. After capping, the jars were vigorously boiled for 10 minutes. Of a total of 28 jars prepared in this manner in August 1968, 27 had been consumed without untoward effects.

Laboratory analysis of the patient's serum, prior to

treatment with antiserum, revealed type B, botulinum toxin. None of the incriminated tomato juice was available for analysis.

(Reported by C. Hernandez, M.D., M.P.H., Director, Division of Epidemiology, Kentucky State Department of Health; Thomas Wallace, M.D., Director of Health, Louisville-Jefferson County Health Department; the Anaerobic Bacteriology Laboratory, Bacterial Reference Unit, Laboratory Program, NCDC; and an EIS Officer.)

Editorial Comment:

This is the third outbreak of botulism attributed to ingestion of tomato juice since 1899.¹ The previous two outbreaks involved three cases with no fatalities. In those, the toxin type was not determined (Table 1).

In this case, the slow progression of symptoms, the demonstration of *C. botulinum* toxin in the blood stream approximately 1 week after ingestion of the incriminated vehicle, and the geographic distribution of the outbreak are all consistent with type B, *C. botulinum* toxin.

A CASE OF HISTIOCYTOSIS – New Jersey

Recently, a medical problem in which leprosy was considered in the differential diagnosis occurred in a Vietnam veteran. In early October 1968, a 19-year-old American soldier with a maculopapular rash over the arms and lower trunk, fever, and periorbital edema was admitted to a hospital in Vietnam. There a chest X-ray revealed a pleural effusion on the left, but a study of pleural fluid was not diagnostic. A single thick blood smear was positive for *Plasmodium vivax*, and the patient was treated with chloroquine and primaquine; however, fever persisted. In addition, the patient reported taking relatively regular malaria prophylaxis of chloroquine weekly and 25 mg of DDS daily. Scrub typhus was then considered and tetracycline therapy was begun. Neither fever nor rash improved, and the patient was transferred to a military hospital in Japan where the skin lesions were felt to be compatible with leprosy. The patient was then transferred in mid-December to a military hospital in New Jersey.

After admission, the patient had almost daily temperature elevations to 101-102°F, but occasionally for several consecutive days was without fever. New skin lesions developed in the involved areas of the lower trunk and arms and progressed to include the face and chest. Several skin biopsies were performed. The slides showed a non-infectious granulomatous process involving the dermis and no acid-fast bacilli. No specific diagnosis was made. A liver biopsy and several bone marrow studies were normal. The peripheral white count was normal to low with a decrease in lymphocytes, and no abnormal cells were seen. Multiple cultures of blood and skin lesions were negative for bacteria and fungi.

The distribution of the skin lesions was not typical of a particular disease, but the general character was compatible with erythema nodosum leprosum as seen in patients

Table 1
Outbreaks of Botulism Since 1899 Involving Tomato Products

| | Number of outbreaks | Cases | Deaths | Place of preparation | Toxin types |
|---------------|---------------------|-------|--------|----------------------|----------------------|
| Tomatoes | 11 | 29 | 16 | All home-canned | 2 type A 1 type B |
| Tomato juice | 3 | 4 | 0 | All home-canned | 1 type B |
| Tomato relish | 1 | 2 | 2 | Home-canned | Unknown |
| Tomato catsup | 1 | 2 | 0 | Commercial product | Unknown |

Reference:

¹Meyer, K. E., and Eddie, B.: Sixty-Five Years of Human Botulism in the United States and Canada: Epidemiology and Tabulations of Reported Cases 1899 through 1964. George Williams Hooper Foundation, University of California, San Francisco Medical Center, June 1965.

taking DDS. Because the patient had no history of exposure to leprosy in the United States and because his stay in Vietnam was less than the usual incubation period for leprosy, this diagnosis seemed unlikely.

Additional thick skin biopsies revealed prominent proliferation of atypical reticular cells and lymphocytes and histiocytic cells with many mitotic nuclei in the perineural and perivascular areas. Microscopic sections of a lymphoid mass removed from the right axilla showed diffuse infiltration of atypical histiocytes throughout sinusoidal areas, and malignant histiocytosis stage 4B with widespread disease and systemic symptoms was diagnosed. On February 14, the patient was begun on IV cyclophosphamide. Three days later, his fever began to subside, he began to feel better subjectively, and the skin lesions were markedly improved. Recurrent left pleural effusion has occurred. Cyclophosphamide therapy is continuing.

(Reported by Ronald Brostek, Lt. Col., MC, Chief, Medicine Division, and Joseph Smith, Lt. Col., MC, Chief, Preventive Medicine Division, Walston General Hospital, Fort Dix, New Jersey; John Gault, Lt. Col., MC, Preventive Medicine Division, Office of the Surgeon General, Department of the Army; and the Leprosy Surveillance Unit, Bacterial Diseases Branch, Epidemiology Program, NCDC.)

Editorial Comment:

There have been 45 American servicemen who developed leprosy subsequent in time to military service during World War II and the Korean War without known exposure prior to military service. No cases have been reported in servicemen who have served in Vietnam, other than in those who had possible exposure to leprosy either before joining the service or in other parts of the world.

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
MARCH 29, 1969 AND MARCH 30, 1968 (13th WEEK)

| AREA | ASEPTIC MENIN- GITIS | BRUCEL- LOSIS | DIPHThERIA | ENCEPHALITIS | | | HEPATITIS | | | MALARIA | |
|-------------------------|----------------------------|------------------|------------|----------------------------------|------|---------------------|-----------|------------|------|---------|--------------|
| | | | | Primary including unsp. cases | | Post- Infectious | Serum | Infectious | | 1969 | Cum- 1969 |
| | | | | 1969 | 1968 | 1969 | 1969 | 1969 | 1968 | | |
| UNITED STATES... | 26 | 4 | 6 | 21 | 16 | 6 | 116 | 870 | 900 | 56 | 603 |
| NEW ENGLAND..... | - | - | - | 3 | 4 | - | 11 | 66 | 34 | 4 | 31 |
| Maine.*..... | - | - | - | - | - | - | - | 3 | 1 | - | - |
| New Hampshire..... | - | - | - | - | - | - | - | 7 | 1 | - | 2 |
| Vermont..... | - | - | - | - | - | - | - | 2 | - | - | - |
| Massachusetts..... | - | - | - | - | 4 | - | 10 | 22 | 17 | 3 | 25 |
| Rhode Island..... | - | - | - | - | - | - | 1 | 16 | 6 | - | - |
| Connecticut..... | - | - | - | 3 | - | - | - | 16 | 9 | 1 | 4 |
| MIDDLE ATLANTIC..... | 5 | - | - | 5 | 4 | 2 | 60 | 164 | 124 | 15 | 67 |
| New York City..... | 3 | - | - | 4 | 3 | - | 35 | 50 | 41 | - | 4 |
| New York, up-State..... | - | - | - | - | - | 1 | 2 | 30 | 23 | - | 13 |
| New Jersey.*..... | 2 | - | - | 1 | - | - | 16 | 32 | 19 | 15 | 26 |
| Pennsylvania..... | - | - | - | - | 1 | 1 | 7 | 52 | 41 | - | 24 |
| EAST NORTH CENTRAL... | 3 | - | - | 7 | 4 | - | 6 | 129 | 130 | 4 | 40 |
| Ohio..... | - | - | - | 4 | 1 | - | 1 | 40 | 47 | 1 | 4 |
| Indiana.*..... | - | - | - | - | 3 | - | - | 3 | 6 | - | 3 |
| Illinois..... | 1 | - | - | - | - | - | 2 | 28 | 39 | 3 | 19 |
| Michigan..... | 2 | - | - | 3 | - | - | 3 | 50 | 31 | - | 13 |
| Wisconsin..... | - | - | - | - | - | - | - | 8 | 7 | - | 1 |
| WEST NORTH CENTRAL... | 1 | - | - | - | - | - | 1 | 32 | 38 | 3 | 43 |
| Minnesota..... | - | - | - | - | - | - | - | 12 | 8 | - | 3 |
| Iowa..... | - | - | - | - | - | - | - | 3 | 10 | - | 4 |
| Missouri..... | 1 | - | - | - | - | - | 1 | 9 | 11 | 1 | 11 |
| North Dakota..... | - | - | - | - | - | - | - | 2 | - | 1 | 2 |
| South Dakota..... | - | - | - | - | - | - | - | 3 | 1 | - | - |
| Nebraska..... | - | - | - | - | - | - | - | - | 4 | - | 3 |
| Kansas..... | - | - | - | - | - | - | - | 3 | 4 | 1 | 20 |
| SOUTH ATLANTIC..... | 1 | 4 | - | - | 2 | - | 3 | 125 | 103 | 8 | 197 |
| Delaware..... | - | - | - | - | - | - | - | 1 | 3 | - | 1 |
| Maryland.*..... | - | - | - | - | 1 | - | - | 18 | 14 | - | 5 |
| Dist. of Columbia.. | - | - | - | - | - | - | 1 | 2 | 1 | - | - |
| Virginia..... | 1 | 4 | - | - | 1 | - | - | 8 | 12 | - | 10 |
| West Virginia..... | - | - | - | - | - | - | - | 1 | 3 | - | - |
| North Carolina..... | - | - | - | - | - | - | 1 | 9 | 10 | 7 | 100 |
| South Carolina.*... | - | - | - | - | - | - | - | 3 | 2 | 1 | 18 |
| Georgia..... | - | - | - | - | - | - | - | 41 | 42 | - | 50 |
| Florida..... | - | - | - | - | - | - | 1 | 42 | 16 | - | 13 |
| EAST SOUTH CENTRAL... | 2 | - | 1 | 1 | - | 1 | - | 31 | 80 | - | 22 |
| Kentucky..... | - | - | - | - | - | - | - | 9 | 16 | - | 17 |
| Tennessee..... | - | - | - | 1 | - | 1 | - | 15 | 43 | - | - |
| Alabama..... | - | - | - | - | - | - | - | 3 | 13 | - | 5 |
| Mississippi..... | 2 | - | 1 | - | - | - | - | 4 | 8 | - | - |
| WEST SOUTH CENTRAL... | 2 | - | 3 | - | - | 2 | 1 | 62 | 74 | 4 | 18 |
| Arkansas..... | - | - | - | - | - | - | - | - | 1 | - | 4 |
| Louisiana..... | - | - | 3 | - | - | - | 1 | 14 | 15 | 4 | 12 |
| Oklahoma.*..... | - | - | - | - | - | 1 | - | 7 | 10 | - | 2 |
| Texas..... | 2 | - | - | - | - | 1 | - | 41 | 48 | - | - |
| MOUNTAIN..... | - | - | 2 | 1 | - | - | 1 | 39 | 62 | 2 | 42 |
| Montana..... | - | - | - | - | - | - | - | 3 | 9 | - | - |
| Idaho..... | - | - | - | - | - | - | - | - | 4 | - | 1 |
| Wyoming..... | - | - | - | - | - | - | - | 7 | 1 | - | - |
| Colorado..... | - | - | - | 1 | - | - | - | 1 | 22 | 2 | 38 |
| New Mexico..... | - | - | - | - | - | - | 1 | 5 | 3 | - | 2 |
| Arizona..... | - | - | 2 | - | - | - | - | 13 | 13 | - | 1 |
| Utah..... | - | - | - | - | - | - | - | 10 | 9 | - | - |
| Nevada..... | - | - | - | - | - | - | - | - | 1 | - | - |
| PACIFIC..... | 12 | - | - | 4 | 2 | 1 | 33 | 222 | 255 | 16 | 143 |
| Washington..... | 3 | - | - | 1 | - | - | - | 14 | 21 | 1 | 5 |
| Oregon..... | - | - | - | - | - | - | - | 8 | 14 | - | 5 |
| California..... | 7 | - | - | 3 | 2 | 1 | 33 | 194 | 220 | 15 | 122 |
| Alaska..... | - | - | - | - | - | - | - | 5 | - | - | - |
| Hawaii..... | 2 | - | - | - | - | - | - | 1 | - | - | 11 |
| Puerto Rico.*..... | - | - | - | - | - | - | - | 79 | 17 | 1 | 1 |

*Delayed reports: Aseptic meningitis: Md. 1
Encephalitis, primary: Okla. 1
Hepatitis, serum: N.J. delete 4
Hepatitis, infectious: Me. 10, N.J. delete 58, Ind. delete 1, Md. 13 (1969) 1 (1968), S.C. delete 1, Okla. 3, P.R. 1
Malaria: N.J. delete 6

TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MARCH 29, 1969 AND MARCH 30, 1968 (13th WEEK) - CONTINUED

| AREA | MEASLES (Rubeola) | | | MENINGOCOCCAL INFECTIONS, TOTAL | | | MUMPS | POLIOMYELITIS | | | RUBELLA | |
|-------------------------|-------------------|------------|-------|------------------------------------|------------|-------|-------|---------------|-------|-----------|---------|--------------|
| | 1969 | Cumulative | | 1969 | Cumulative | | | 1969 | Total | Paralytic | | |
| | | 1969 | 1968 | | 1969 | 1968 | | | 1969 | 1969 | | Cum. 1969 |
| UNITED STATES.... | 1,029 | 6,839 | 8,016 | 85 | 1,073 | 1,009 | 2,766 | - | - | 1 | 2,075 | |
| NEW ENGLAND..... | 49 | 305 | 308 | 1 | 31 | 50 | 293 | - | - | - | 170 | |
| Maine.*..... | - | 2 | 10 | - | 1 | 2 | 26 | - | - | - | 2 | |
| New Hampshire..... | 10 | 70 | 48 | - | - | 6 | 1 | - | - | - | 10 | |
| Vermont..... | - | 1 | - | - | - | 1 | 25 | - | - | - | 16 | |
| Massachusetts*..... | 15 | 61 | 123 | 1 | 16 | 24 | 123 | - | - | - | 55 | |
| Rhode Island..... | 6 | 9 | 1 | - | 3 | 4 | 24 | - | - | - | 3 | |
| Connecticut..... | 18 | 162 | 126 | - | 11 | 13 | 94 | - | - | - | 84 | |
| MIDDLE ATLANTIC..... | 319 | 2,022 | 1,091 | 9 | 131 | 148 | 244 | - | - | - | 103 | |
| New York City*..... | 254 | 1,401 | 255 | 2 | 28 | 28 | 95 | - | - | - | 36 | |
| New York, Up-State..... | 29 | 202 | 561 | - | 19 | 18 | NN | - | - | - | 20 | |
| New Jersey.*..... | 25 | 226 | 221 | 6 | 46 | 58 | 149 | - | - | - | 25 | |
| Pennsylvania..... | 11 | 193 | 54 | 1 | 38 | 44 | NN | - | - | - | 22 | |
| EAST NORTH CENTRAL.... | 77 | 767 | 1,936 | 7 | 125 | 107 | 547 | - | - | - | 532 | |
| Ohio..... | 15 | 90 | 146 | 4 | 39 | 26 | 67 | - | - | - | 27 | |
| Indiana.*..... | 27 | 220 | 316 | - | 20 | 16 | 50 | - | - | - | 116 | |
| Illinois..... | 8 | 144 | 818 | 2 | 21 | 27 | 44 | - | - | - | 27 | |
| Michigan..... | 1 | 79 | 121 | 1 | 37 | 29 | 184 | - | - | - | 217 | |
| Wisconsin..... | 26 | 234 | 535 | - | 8 | 9 | 202 | - | - | - | 145 | |
| WEST NORTH CENTRAL.... | 29 | 220 | 197 | 4 | 57 | 45 | 230 | - | - | - | 62 | |
| Minnesota..... | - | 1 | 6 | - | 9 | 10 | 69 | - | - | - | 7 | |
| Iowa..... | 29 | 134 | 39 | 1 | 8 | 3 | 122 | - | - | - | 39 | |
| Missouri..... | - | 11 | 58 | 1 | 22 | 9 | 5 | - | - | - | 1 | |
| North Dakota..... | - | 5 | 60 | - | - | 2 | 34 | - | - | - | 10 | |
| South Dakota..... | - | - | 3 | - | - | 4 | NN | - | - | - | - | |
| Nebraska..... | - | 69 | 24 | - | 6 | 4 | - | - | - | - | 4 | |
| Kansas..... | - | - | 7 | 2 | 12 | 13 | - | - | - | - | 1 | |
| SOUTH ATLANTIC..... | 154 | 1,162 | 711 | 10 | 199 | 222 | 287 | - | - | - | 306 | |
| Delaware..... | 43 | 65 | 5 | - | 3 | 2 | - | - | - | - | 5 | |
| Maryland.*..... | - | 11 | 40 | - | 18 | 15 | 19 | - | - | - | 33 | |
| Dist. of Columbia.. | - | - | 4 | - | 3 | 8 | - | - | - | - | 1 | |
| Virginia..... | 70 | 460 | 139 | - | 29 | 15 | 34 | - | - | - | 73 | |
| West Virginia..... | 13 | 114 | 132 | 2 | 10 | 6 | 97 | - | - | - | 109 | |
| North Carolina..... | 6 | 91 | 185 | 1 | 29 | 50 | NN | - | - | - | - | |
| South Carolina*.... | 2 | 50 | 8 | 4 | 32 | 41 | 24 | - | - | - | 20 | |
| Georgia..... | - | 1 | 3 | - | 28 | 40 | - | - | - | - | - | |
| Florida..... | 20 | 370 | 195 | 3 | 47 | 45 | 113 | - | - | - | 65 | |
| EAST SOUTH CENTRAL.... | 1 | 45 | 197 | 5 | 54 | 81 | 70 | - | - | - | 111 | |
| Kentucky..... | 1 | 19 | 59 | 2 | 15 | 29 | 7 | - | - | - | 12 | |
| Tennessee..... | - | 11 | 40 | 2 | 25 | 24 | 60 | - | - | - | 68 | |
| Alabama..... | - | - | 39 | - | 8 | 14 | 3 | - | - | - | 27 | |
| Mississippi..... | - | 15 | 59 | 1 | 6 | 14 | - | - | - | - | 4 | |
| WEST SOUTH CENTRAL.... | 244 | 1,713 | 1,980 | 16 | 150 | 210 | 357 | - | - | 1 | 297 | |
| Arkansas..... | - | 2 | - | 2 | 17 | 12 | - | - | - | - | - | |
| Louisiana..... | 43 | 51 | 1 | 1 | 38 | 52 | 6 | - | - | - | 1 | |
| Oklahoma..... | 1 | 105 | 97 | 1 | 9 | 42 | 48 | - | - | - | 128 | |
| Texas..... | 200 | 1,555 | 1,882 | 12 | 86 | 104 | 303 | - | - | 1 | 168 | |
| MOUNTAIN..... | 29 | 163 | 377 | 1 | 28 | 13 | 144 | - | - | - | 76 | |
| Montana..... | - | 3 | 54 | 1 | 3 | 1 | 20 | - | - | - | - | |
| Idaho..... | 7 | 36 | 11 | - | 5 | 2 | 5 | - | - | - | 3 | |
| Wyoming..... | - | - | 34 | - | - | - | - | - | - | - | 2 | |
| Colorado..... | 4 | 19 | 148 | - | 6 | 7 | 17 | - | - | - | 51 | |
| New Mexico..... | 9 | 57 | 40 | - | 5 | - | 6 | - | - | - | 5 | |
| Arizona..... | 9 | 46 | 86 | - | 6 | 1 | 90 | - | - | - | 11 | |
| Utah..... | - | 1 | 2 | - | 1 | - | 6 | - | - | - | 4 | |
| Nevada..... | - | 1 | 2 | - | 2 | 2 | - | - | - | - | - | |
| PACIFIC..... | 127 | 442 | 1,219 | 32 | 298 | 133 | 594 | - | - | - | 418 | |
| Washington..... | 7 | 34 | 319 | 12 | 36 | 23 | 174 | - | - | - | 118 | |
| Oregon..... | 62 | 99 | 254 | 1 | 8 | 13 | 26 | - | - | - | 23 | |
| California..... | 58 | 294 | 623 | 17 | 244 | 88 | 371 | - | - | - | 252 | |
| Alaska..... | - | 13 | - | 2 | 4 | - | 10 | - | - | - | 3 | |
| Hawaii..... | - | 2 | 23 | - | 6 | 9 | 13 | - | - | - | 22 | |
| Puerto Rico..... | 18 | 154 | 143 | 3 | 6 | 16 | 12 | - | - | - | 2 | |

*Delayed reports: Measles: Mass. delete 5, N.J. delete 1, Ind. delete 64, Md. 3, S.C. delete 1

Meningococcal infections: Ind. delete 1, Md. 2

Mumps: Me. 4, Md. 13

Poliomyelitis, paralytic: N.Y.C. 1 (1968)

Rubella: Me. 2, Ind. 64, Md. 37

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TABLE III. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

FOR WEEKS ENDED

MARCH 29, 1969 AND MARCH 30, 1968 (13th WEEK) - CONTINUED

| AREA | STREPTOCOCCAL SORE THROAT & SCARLET FEVER | TETANUS | | TULAREMIA | | TYPHOID FEVER | | TYPHUS FEVER TICK-BORNE (Rky. Mt. Spotted) | | RABIES IN ANIMALS | |
|-----------------------|---|---------|------|--------------|------|------------------|------|--|------|----------------------|------|
| | | 1969 | 1969 | Cum. 1969 | 1969 | Cum. 1969 | 1969 | Cum. 1969 | 1969 | Cum. 1969 | 1969 |
| UNITED STATES... | 11,599 | 1 | 23 | 1 | 24 | - | 47 | - | 1 | 96 | 924 |
| NEW ENGLAND..... | 1,975 | - | - | - | - | - | - | - | - | - | 2 |
| Maine.*..... | 32 | - | - | - | - | - | - | - | - | - | 1 |
| New Hampshire..... | 22 | - | - | - | - | - | - | - | - | - | - |
| Vermont..... | 13 | - | - | - | - | - | - | - | - | - | 1 |
| Massachusetts..... | 276 | - | - | - | - | - | - | - | - | - | - |
| Rhode Island..... | 113 | - | - | - | - | - | - | - | - | - | - |
| Connecticut..... | 1,519 | - | - | - | - | - | - | - | - | - | - |
| MIDDLE ATLANTIC..... | 623 | - | 4 | - | 1 | - | 7 | - | - | 8 | 22 |
| New York City..... | 30 | - | 2 | - | 1 | - | 5 | - | - | - | - |
| New York, Up-State. | 406 | - | 2 | - | - | - | 1 | - | - | 8 | 22 |
| New Jersey..... | NN | - | - | - | - | - | - | - | - | - | - |
| Pennsylvania..... | 187 | - | - | - | - | - | 1 | - | - | - | - |
| EAST NORTH CENTRAL... | 1,117 | - | 3 | - | 2 | - | 3 | - | - | 6 | 41 |
| Ohio..... | 284 | - | - | - | - | - | 2 | - | - | - | 7 |
| Indiana..... | 198 | - | - | - | 1 | - | - | - | - | 3 | 9 |
| Illinois..... | 193 | - | 1 | - | 1 | - | - | - | - | 3 | 8 |
| Michigan..... | 218 | - | 2 | - | - | - | 1 | - | - | - | 1 |
| Wisconsin..... | 224 | - | - | - | - | - | - | - | - | - | 16 |
| WEST NORTH CENTRAL... | 270 | - | 1 | - | 3 | - | - | - | - | 22 | 165 |
| Minnesota..... | 19 | - | - | - | - | - | - | - | - | 4 | 46 |
| Iowa..... | 57 | - | - | - | - | - | - | - | - | - | 26 |
| Missouri..... | 9 | - | - | - | 3 | - | - | - | - | 14 | 62 |
| North Dakota..... | 69 | - | - | - | - | - | - | - | - | 1 | 22 |
| South Dakota..... | 23 | - | - | - | - | - | - | - | - | - | - |
| Nebraska..... | 66 | - | - | - | - | - | - | - | - | 1 | 1 |
| Kansas.*..... | 27 | - | 1 | - | - | - | - | - | - | 2 | 8 |
| SOUTH ATLANTIC..... | 1,458 | - | 6 | - | 10 | - | 5 | - | - | 21 | 297 |
| Delaware..... | 12 | - | - | - | - | - | - | - | - | - | - |
| Maryland.*..... | 332 | - | - | - | - | - | 1 | - | - | - | - |
| Dist. of Columbia.. | 1 | - | 2 | - | - | - | - | - | - | - | - |
| Virginia.*..... | 493 | - | - | - | - | - | - | - | - | 9 | 192 |
| West Virginia..... | 242 | - | - | - | 2 | - | - | - | - | 5 | 40 |
| North Carolina..... | 33 | - | 1 | - | 4 | - | 1 | - | - | - | 1 |
| South Carolina.*... | 78 | - | 1 | - | - | - | 1 | - | - | - | - |
| Georgia..... | 13 | - | - | - | - | - | 1 | - | - | - | 18 |
| Florida..... | 254 | - | 2 | - | 4 | - | 1 | - | - | 7 | 46 |
| EAST SOUTH CENTRAL... | 1,691 | 1 | 2 | 1 | 4 | - | 7 | - | 1 | 16 | 171 |
| Kentucky..... | 234 | 1 | 2 | - | - | - | - | - | - | 11 | 102 |
| Tennessee..... | 1,334 | - | - | 1 | 4 | - | 6 | - | 1 | 3 | 55 |
| Alabama..... | 47 | - | - | - | - | - | - | - | - | 2 | 14 |
| Mississippi..... | 76 | - | - | - | - | - | 1 | - | - | - | - |
| WEST SOUTH CENTRAL... | 845 | - | 3 | - | 2 | - | 7 | - | - | 18 | 118 |
| Arkansas..... | 17 | - | - | - | - | - | 4 | - | - | 4 | 8 |
| Louisiana..... | 14 | - | 2 | - | - | - | - | - | - | 1 | 7 |
| Oklahoma..... | 44 | - | 1 | - | 2 | - | - | - | - | 2 | 18 |
| Texas..... | 770 | - | - | - | - | - | 3 | - | - | 11 | 85 |
| MOUNTAIN..... | 2,281 | - | - | - | 2 | - | 10 | - | - | 2 | 27 |
| Montana..... | 39 | - | - | - | - | - | - | - | - | - | - |
| Idaho..... | 84 | - | - | - | - | - | - | - | - | - | - |
| Wyoming..... | 225 | - | - | - | - | - | 5 | - | - | 2 | 10 |
| Colorado..... | 1,590 | - | - | - | - | - | 1 | - | - | - | 2 |
| New Mexico..... | 71 | - | - | - | 1 | - | 2 | - | - | - | 7 |
| Arizona..... | 121 | - | - | - | - | - | 1 | - | - | - | 5 |
| Utah..... | 151 | - | - | - | 1 | - | - | - | - | - | - |
| Nevada..... | - | - | - | - | - | - | 1 | - | - | - | 3 |
| PACIFIC..... | 1,339 | - | 4 | - | - | - | 8 | - | - | 3 | 81 |
| Washington..... | 347 | - | - | - | - | - | - | - | - | - | - |
| Oregon..... | 75 | - | - | - | - | - | - | - | - | - | - |
| California..... | 775 | - | 4 | - | - | - | 8 | - | - | 3 | 81 |
| Alaska..... | 91 | - | - | - | - | - | - | - | - | - | - |
| Hawaii..... | 51 | - | - | - | - | - | - | - | - | - | - |
| Puerto Rico..... | 3 | - | 1 | - | - | 1 | 3 | - | - | - | 5 |

*Delayed reports: SST: Me. 10, Kans. 350, Md. 487, Va. 163, S.C. 1

Morbidity and Mortality Weekly Report

Week No.
13

TABLE IV. DEATHS IN 122 UNITED STATES CITIES FOR WEEK ENDED MARCH 29, 1969

(By place of occurrence and week of filing certificate. Excludes fetal deaths)

| Area | All Causes | | Pneumonia and Influenza All Ages | Under 1 year All Causes | Area | All Causes | | Pneumonia and Influenza All Ages | Under 1 year All Causes |
|----------------------------|------------|-------------------|----------------------------------|-------------------------|---|---------------|-------------------|----------------------------------|-------------------------|
| | All Ages | 65 years and over | | | | All Ages | 65 years and over | | |
| NEW ENGLAND: | 736 | 436 | 31 | 28 | SOUTH ATLANTIC: | 1,265 | 665 | 52 | 45 |
| Boston, Mass.----- | 257 | 148 | 6 | 13 | Atlanta, Ga.----- | 126 | 62 | 4 | 8 |
| Bridgeport, Conn.----- | 55 | 29 | 5 | 1 | Baltimore, Md.----- | 248 | 128 | 7 | 11 |
| Cambridge, Mass.----- | 27 | 18 | 5 | 1 | Charlotte, N. C.----- | 62 | 30 | 1 | 1 |
| Fall River, Mass.----- | 33 | 17 | - | 1 | Jacksonville, Fla.----- | 92 | 44 | - | 1 |
| Hartford, Conn.----- | 52 | 28 | 1 | 3 | Miami, Fla.----- | 117 | 51 | 2 | 5 |
| Lowell, Mass.----- | 20 | 12 | - | 1 | Norfolk, Va.----- | 61 | 32 | 5 | - |
| Lynn, Mass.----- | 11 | 6 | 1 | - | Richmond, Va.----- | 82 | 47 | 2 | 9 |
| New Bedford, Mass.----- | 20 | 13 | - | - | Savannah, Ga.----- | 60 | 23 | 4 | 2 |
| New Haven, Conn.----- | 57 | 37 | 1 | 3 | St. Petersburg, Fla.----- | 97 | 75 | 8 | 2 |
| Providence, R. I.----- | 72 | 45 | 5 | 2 | Tampa, Fla.----- | 68 | 46 | 6 | - |
| Somerville, Mass.----- | 12 | 8 | 1 | - | Washington, D. C.----- | 197 | 100 | 12 | 4 |
| Springfield, Mass.----- | 40 | 21 | 2 | 1 | Wilmington, Del.----- | 55 | 27 | 1 | 2 |
| Waterbury, Conn.----- | 35 | 25 | - | 2 | EAST SOUTH CENTRAL: | 717 | 399 | 38 | 25 |
| Worcester, Mass.----- | 45 | 29 | 4 | - | Birmingham, Ala.----- | 107 | 63 | 5 | 5 |
| MIDDLE ATLANTIC: | 3,492 | 2,087 | 140 | 154 | Chattanooga, Tenn.----- | 49 | 23 | 3 | 1 |
| Albany, N. Y.----- | 54 | 31 | 2 | 4 | Knoxville, Tenn.----- | 28 | 17 | - | 1 |
| Allentown, Pa.----- | 38 | 19 | - | 2 | Louisville, Ky.----- | 152 | 94 | 15 | 6 |
| Buffalo, N. Y.----- | 164 | 115 | 3 | 8 | Memphis, Tenn.----- | 169 | 79 | 6 | 7 |
| Camden, N. J.----- | 44 | 28 | 1 | 1 | Mobile, Ala.----- | 45 | 22 | 2 | - |
| Elizabeth, N. J.----- | 32 | 16 | - | - | Montgomery, Ala.----- | 45 | 28 | 3 | 1 |
| Erie, Pa.----- | 43 | 25 | 6 | 3 | Nashville, Tenn.----- | 122 | 73 | 4 | 4 |
| Jersey City, N. J.----- | 74 | 46 | 15 | 2 | WEST SOUTH CENTRAL: | 1,330 | 714 | 60 | 77 |
| Newark, N. J.----- | 110 | 40 | 3 | 34 | Austin, Tex.----- | 53 | 36 | 7 | 1 |
| New York City, N. Y.----- | 1,627 | 977 | 54 | 53 | Baton Rouge, La.----- | 56 | 28 | 3 | 4 |
| Paterson, N. J.----- | 33 | 22 | 2 | 2 | Corpus Christi, Tex.----- | 28 | 10 | - | 5 |
| Philadelphia, Pa.----- | 600 | 345 | 7 | 20 | Dallas, Tex.----- | 173 | 93 | 3 | 14 |
| Pittsburgh, Pa.----- | 245 | 134 | 12 | 8 | El Paso, Tex.----- | 48 | 24 | 3 | 6 |
| Reading, Pa.----- | 54 | 46 | 5 | - | Fort Worth, Tex.----- | 92 | 59 | 4 | 3 |
| Rochester, N. Y.----- | 123 | 87 | 13 | 5 | Houston, Tex.----- | 234 | 112 | 3 | 16 |
| Schenectady, N. Y.----- | 26 | 16 | 4 | 1 | Little Rock, Ark.----- | 68 | 29 | 5 | 2 |
| Scranton, Pa.----- | 35 | 24 | 4 | - | New Orleans, La.----- | 161 | 86 | 7 | 4 |
| Syracuse, N. Y.----- | 86 | 56 | 4 | 6 | Oklahoma City, Okla.----- | 89 | 44 | 4 | 5 |
| Trenton, N. J.----- | 48 | 27 | 1 | 3 | San Antonio, Tex.----- | 146 | 82 | 3 | 13 |
| Utica, N. Y.----- | 33 | 21 | 3 | 1 | Shreveport, La.----- | 67 | 39 | 6 | 2 |
| Yonkers, N. Y.----- | 23 | 12 | 1 | 1 | Tulsa, Okla.----- | 115 | 72 | 12 | 2 |
| EAST NORTH CENTRAL: | 2,826 | 1,653 | 117 | 129 | MOUNTAIN: | 479 | 261 | 33 | 38 |
| Akron, Ohio----- | 76 | 46 | - | 3 | Albuquerque, N. Mex.----- | 41 | 15 | 5 | 3 |
| Canton, Ohio----- | 30 | 16 | - | - | Colorado Springs, Colo.----- | 35 | 20 | 9 | 6 |
| Chicago, Ill.----- | 822 | 467 | 25 | 32 | Denver, Colo.----- | 140 | 76 | 9 | 16 |
| Cincinnati, Ohio----- | 175 | 102 | 8 | 16 | Ogden, Utah----- | 23 | 11 | 1 | 3 |
| Cleveland, Ohio----- | 209 | 116 | 8 | 3 | Phoenix, Ariz.----- | 101 | 57 | 1 | 6 |
| Columbus, Ohio----- | 134 | 86 | 4 | 11 | Pueblo, Colo.----- | 21 | 12 | 4 | - |
| Dayton, Ohio----- | 79 | 54 | 3 | 3 | Salt Lake City, Utah----- | 44 | 27 | 1 | 2 |
| Detroit, Mich.----- | 353 | 204 | 13 | 16 | Tucson, Ariz.----- | 74 | 43 | 3 | 2 |
| Evansville, Ind.----- | 43 | 29 | 4 | 1 | PACIFIC: | 1,765 | 1,089 | 56 | 67 |
| Flint, Mich.----- | 59 | 18 | 3 | 7 | Berkeley, Calif.----- | 20 | 18 | 1 | - |
| Fort Wayne, Ind.----- | 51 | 29 | 4 | 6 | Fresno, Calif.----- | 50 | 21 | 2 | 3 |
| Gary, Ind.----- | 42 | 19 | 4 | 5 | Glendale, Calif.----- | 39 | 28 | 1 | - |
| Grand Rapids, Mich.----- | 81 | 53 | 8 | 3 | Honolulu, Hawaii----- | 45 | 23 | 2 | 3 |
| Indianapolis, Ind.----- | 142 | 84 | 6 | 6 | Long Beach, Calif.----- | 78 | 46 | 4 | 3 |
| Madison, Wis.----- | 34 | 21 | 5 | 2 | Los Angeles, Calif.----- | 589 | 364 | 16 | 23 |
| Milwaukee, Wis.----- | 154 | 102 | 2 | 7 | Oakland, Calif.----- | 84 | 50 | 3 | 6 |
| Peoria, Ill.----- | 56 | 33 | - | 2 | Pasadena, Calif.----- | 38 | 29 | - | 1 |
| Rockford, Ill.----- | 42 | 27 | 4 | 3 | Portland, Oreg.----- | 152 | 105 | 5 | 3 |
| South Bend, Ind.----- | 56 | 27 | 8 | 1 | Sacramento, Calif.----- | 55 | 34 | - | 2 |
| Toledo, Ohio----- | 135 | 85 | 5 | 2 | San Diego, Calif.----- | 109 | 72 | 3 | 6 |
| Youngstown, Ohio----- | 53 | 35 | 3 | - | San Francisco, Calif.----- | 184 | 101 | 5 | 4 |
| WEST NORTH CENTRAL: | 816 | 531 | 27 | 30 | San Jose, Calif.----- | 43 | 30 | 1 | 1 |
| Des Moines, Iowa----- | 64 | 48 | 4 | 2 | Seattle, Wash.----- | 175 | 101 | 9 | 8 |
| Duluth, Minn.----- | 17 | 13 | 4 | - | Spokane, Wash.----- | 41 | 22 | 3 | 3 |
| Kansas City, Kans.----- | 32 | 23 | 1 | 3 | Tacoma, Wash.----- | 63 | 45 | 1 | 1 |
| Kansas City, Mo.----- | 120 | 71 | - | 5 | Total | 13,426 | 7,835 | 554 | 593 |
| Lincoln, Nebr.----- | 38 | 27 | 1 | 1 | Cumulative Totals | | | | |
| Minneapolis, Minn.----- | 97 | 61 | 2 | 2 | including reported corrections for previous weeks | | | | |
| Omaha, Nebr.----- | 96 | 66 | 1 | 2 | All Causes, All Ages----- | | | | 186,970 |
| St. Louis, Mo.----- | 255 | 150 | 7 | 11 | All Causes, Age 65 and over----- | | | | 108,604 |
| St. Paul, Minn.----- | 56 | 43 | 2 | 4 | Pneumonia and Influenza, All Ages----- | | | | 12,144 |
| Wichita, Kans.----- | 41 | 29 | 5 | - | All Causes, Under 1 Year of Age----- | | | | 8,376 |

GASTROENTERITIS – Glenwood Springs, Colorado

On Jan. 29, 1969, an outbreak of gastroenteritis occurred among skiers in Glenwood Springs, Colorado. Questionnaires were sent to a group of 70 skiers; of the 49 returning them, 36 reported illness for an attack rate of 73 percent. They developed nausea (100 percent), vomiting (95 percent), diarrhea (61 percent), fever (55 percent), and cramps (39 percent) 18 to 72 hours after visiting this skiing area. No pathogens were identified from stool cultures from eight persons with diarrhea.

Food histories listing all items served at the ski area cafeteria suggested an increased incidence of illness among persons drinking water or soft drinks made at the cafeteria; however, this was not considered statistically significant. Four persons who became ill on February 1 had had only a soft drink. Water used at the cafeteria came from one of two wells and all soft drinks were made at the cafeteria from commercial syrup, bottled CO₂, and well water. The water supply was tested regularly and was found acceptable on January 20. However, samples collected on January 29 were severely contaminated with coliform organisms as were repeat samples collected for confirmation. Investigation found that a sewer line was broken, discharging raw sewage on the ground approximately 25 feet from the cafeteria's primary well and that the chlorinator used to treat the well water as it entered the storage tank was also broken. Use of the well was discontinued and the chlorinator was repaired.

(Reported by Cecil S. Mollohan, M.D., M.P.H., Chief, Section of Epidemiology, and R. W. Leidholdt, P.E., Water Supply Specialist, Public Health Engineering Section, Colorado State Department of Public Health; Dean J. Pelly, M.D., Health Officer, Garfield County Health Department; and an EIS Officer.)

THE MORBIDITY AND MORTALITY WEEKLY REPORT, WITH A CIRCULATION OF 17,000 IS PUBLISHED AT THE NATIONAL COMMUNICABLE DISEASE CENTER, ATLANTA, GEORGIA.

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 MORBIDITY AND MORTALITY WEEKLY REPORT

NOTE: THE DATA IN THIS REPORT ARE PROVISIONAL AND ARE BASED ON WEEKLY TELEGRAMS TO THE NCDC BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS. THE REPORTING WEEK CONCLUDES AT CLOSE OF BUSINESS ON FRIDAY; COMPILED DATA ON A NATIONAL BASIS ARE OFFICIALLY RELEASED TO THE PUBLIC ON THE SUCCEEDING FRIDAY.

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